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IN THE CLAIMS:

Please amend the claims as follows:

- 1-30. (Cancelled)
- 31. (New) A method for making a junction, comprising the steps of: irradiating a plasma containing He or a plasma containing Ar to a substrate; introducing impurities into the substrate; and irradiating an electromagnetic wave so as to electrically activate the impurities.
- 32. (New) A method for making a junction, comprising the steps of:

irradiating either a plasma containing He or a plasma containing Ar and a plasma containing particles to be served as impurities to a substrate, so as to introduce the impurities into the substrate; and

irradiating an electromagnetic wave so as to electrically activate the impurities.

- 33. (New) The method for making a junction according to claim 31 or 32, wherein the plasma is primarily comprised of He.
- 34. (New) The method for making a junction according to claim 31 or 32, wherein the plasma is comprised of only He.
- 35. (New) The method for making a junction according to claim 31 or 32, wherein in the step of irradiating the plasma, an amorphous layer is formed by He-plasma.
- 36. (New) The method for making a junction according to claim 31 or 32, wherein, assuming that wavelength is λ (nm) and light absorption ratio is A(%), the light absorption rate of a layer which is formed by introducing the impurities into the substrate satisfies at least one of following conditions:

at the wavelength ranging from 375 nm (inclusive) to 500 nm, $A > 7E32\lambda^{-12.316}$;

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at the wavelength ranging from 500 nm (inclusive) to 600 nm, $A > 2E19\lambda^{-7.278}$; at the wavelength ranging from 600 nm (inclusive) to 700 nm, $A > 4E14\lambda^{-5.5849}$; and at the wavelength ranging from 700 nm (inclusive) to 800 nm, $A > 2E12\lambda^{-4.773}$.

37. (New) The method for making a junction according to claim 31 or 32, wherein, assuming that wavelength is λ (nm) and absorption coefficient is α (cm⁻¹), the light absorption coefficient of a layer which is formed by introducing the impurities into the substrate satisfies at least one of following conditions:

at the wavelength ranging from 375 nm (inclusive) to 500 nm, $\alpha > 1E38\lambda^{-12.505}$; at the wavelength ranging from 500 nm (inclusive) to 600 nm, $\alpha > 1E24\lambda^{-7.2684}$; at the wavelength ranging from 600 nm (inclusive) to 700 nm, $\alpha > 2E19\lambda^{-5.5873}$; and at the wavelength ranging from 700 nm (inclusive) to 800 nm, $\alpha > 1E17\lambda^{-4.7782}$.

38. (New) The method for making a junction according to claim 31 or 32, wherein: the substrate is a silicon substrate; and

- 39. (New) The method for making a junction according to claim 31 or 32, wherein the step of irradiating the electromagnetic wave is a step of irradiating light having an intensity peak at wavelength longer than 375 nm (inclusive).
- 40. (New) The method for making a junction according to claim 39, wherein the step of irradiating the electromagnetic wave is a step of irradiating light having an intensity peak at wavelength longer than 375 nm (inclusive) and shorter than 800 nm (inclusive).
- 41. (New) The method for making a junction according to claim 40, wherein the light having the intensity peak at the wavelength longer than 375 nm (inclusive) and shorter than 800 nm (inclusive) is a xenon flash lamp light.

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- 42. (New) The method for making a junction according to claim 38, wherein the silicon substrate is a substrate having a (100) plane or the silicon substrate comprises a plane inclined from the (100) plane by several degrees.
- 43. (New) The method for making a junction according to claim 38, wherein, assuming that wavelength is λ (nm) and absorption ratio is A (%), the light absorption ratio of a layer into which the boron is introduced for light having a wavelengths longer than 375 nm (inclusive) and shorter than 800 nm (inclusive) satisfies A > 1E19 λ ^{-6.833}.
- 44. (New) The method for making a junction according to claim 38, wherein, assuming that wavelength is λ (nm) and absorption coefficient is α (cm⁻¹), the light absorption coefficient of a layer into which the boron is introduced to light having wavelengths longer than 375 nm (inclusive) and shorter than 800 nm (inclusive) satisfies $\alpha > 1E19\lambda^{-7.1693}$.
- 45. (New) The method for making a junction according to claim 31 or 32, wherein the step of introducing the impurities is a step of introducing the impurities by plasma doping.
- 46. (New) The method for making a junction according to claim 31 or 32, wherein the substrate is a SOI substrate with a Silicon thin film formed on a surface thereof.
- 47. (New) The method for making a junction according to claim 31 or 32, wherein the substrate is a strained Si substrate with a Si film formed on a surface thereof.
- 48. (New) The method for making a junction according to claim 31 or 32, wherein the substrate is a glass substrate with a poly-Si thin film formed on a surface thereof.
- 49. (New) A processed material formed by the method for making a junction according to claim 31 or 32.